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error correcting code reed solomon with finite

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Patent results Patents 1 - 10 on error correcting code reed solomon with finite field. (0.05 seconds)

[Multiple error detecting and](#)

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[correcting system employing Reed-Solomon codes](#)

US Pat. 4413339 - Filed Jun 24, 1981 - Digital Equipment Corporation

r22 REED-SOLOMON ENCODER ERROR LOCATION a VALUE COMPUTATION LOGIC 3.533.067 ...
code having code words whose symbols are elements in the Galois field ...

[Byte-parallel system for implementing reed-solomon error-correcting codes](#)

US Pat. 5754563 - Filed Sep 11, 1995 - ECC Technologies, Inc.

It consists of a tion and reciprocal tables for the **finite field**. ... FIG.

chosen, a **Reed-Solomon error-correcting system** can correct 13-B shows the data ...

[Apparatus for dividing elements of a finite galois field and decoding error correction codes](#)

US Pat. 5185711 - Filed Dec 6, 1990 - Sony Corporation

The principles of the present 2o invention are applicable to these **error-correcting** codes. However, only the **Reed-Solomon code**, which is a special form of ...

[High speed pre-computing circuit and method for finding the error-locator polynomial roots in a Reed-Solomon decoder](#)

US Pat. 6691277 - Filed Nov 12, 1998 - Koninklijke Philips Electronics N.V.

For instance, a $GF(2^m)$ is a 30 **finite field** of 2^m codewords, where $m=2^k-l$ is the codeword length. The elements of a **Reed-Solomon error correcting code** which ...

[Disk drive with fast error correction validation](#)

US Pat. 5691994 - Filed May 8, 1995 - Western Digital Corporation

The disk drive of claim 1, wherein the **finite field** is $GF(2^m)$ and the extension ... a plurality of interleaved **error correction code Reed Solomon** codewords. ...

[Disk drive with embedded finite field processor for error correction](#)

US Pat. 5812564 - Filed May 8, 1995 - Western Digital Corporation

... a single **error correcting Reed-Solomon code** defined over extension field ...
second generator polynomial is defined over a **finite field** and the first ...

[Efficient list decoding of Reed-Solomon codes for message recovery in the presence of high noise levels](#)

US Pat. 6631172 - Filed May 1, 2000 - Lucent Technologies Inc.

Reed-Solomon codes are defined in terms of Galois or **finite field** arithmetic.

... of an apparatus for decoding **Reed-Solomon error correcting codes** 10. FIG. ...

[Cost reduced finite field processor for error correction in computer storage devices](#)

US Pat. 6098192 - Filed Sep 17, 1997 - Cirrus Logic, Inc.

Most of the popular **error correction codes**, such as the **Reed- 65 Solomon code**, exploit mathematical properties over **finite fields** ...

[Dual chien search blocks in an error-correcting decoder](#)

US Pat. 6920600 - Filed Jan 23, 2002 - Thomson Licensing S.A.

Reed-Solomon code is implemented utilizing Galois **field** mathematics, which is responsible for ... The **error correcting** capability of the **code** is $t=(nk)/2$

Method and apparatus for decoding an error correction code

US Pat. 6263471 - Filed Mar 5, 1999 - Industrial Technology Research Institute

A **Reed-Solomon code** (n,k,t) over $GF(2^m)$ can correct up to t **error symbols**, where $GF(2^m)$ is a **finite field** with 2^m m-bit symbols, n is the total number of ...

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